

tv

28 PW 9512

Eng.



PHILIPS

Information for users in the UK

(Not applicable outside the UK)

Positioning the TV

For the best results, choose a position where light does not fall directly on the screen, and at some distance away from radiators or other sources of heat. Leave a space of at least 5 cm all around the TV for ventilation, making sure that curtains, cupboards etc. cannot obstruct the air flow through the ventilation apertures. The TV is intended for use in a domestic environment only and should never be operated or stored in excessively hot or humid atmospheres.

General Points

Please take note of the section 'General Information' at the end of the English section in this booklet.

Interference

The Department of Trade and Industry operates a Radio Interference Investigation Service to help TV license holders improve reception of BBC and IBA programmes where they are being spoilt by interference. If your dealer cannot help, ask at a main Post Office for the booklet "How to improve Television and Radio Reception".

Mains connection

Before connecting the TV to the mains, check that the mains supply voltage corresponds to the voltage printed on the type plate on the rear panel of the TV. If the mains voltage is different, consult your dealer.

Important

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows :

1. Remove fuse cover and fuse.
2. Fit new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.

3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

Note : The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

How to connect a plug

The wires in the mains lead are coloured in accordance with the following code : BLUE - "NEUTRAL" ("N")
BROWN - "LIVE" ("L")

1. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.
3. Do not connect either wires to the earth terminal in the plug which is marked by the letter "E" or by the safety earth symbol or coloured green or green-and-yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

Connecting the aerial

The aerial should be connected to the socket marked  at the back of the set. An inferior aerial is likely to result in a poor, perhaps unstable picture with ghost images and lack of contrast. Make-shift loft or set-top aerials are often inadequate. Your dealer will know from experience the most suitable type for your locality.

Should you wish to use the set in conjunction with other equipment, which connects to the aerial socket such as TV games, or a video camera, it is recommended that these be connected via a combiner unit to avoid repeated connection and disconnection of the aerial plug.

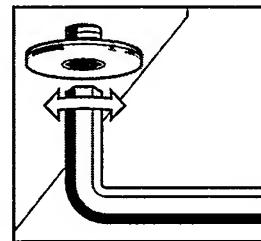
Loop aerial (if provided)

The loop aerial packed with the set will give satisfactory reception under good signal conditions. Fit the aerial bracket and lead by pushing the peg into the square hole in the backcover until it latches in place. Then insert the plug on the lead into the aerial socket.

Fitting the stand (if provided)

Use only the stand provided with the set, making sure that the fixings are properly tightened. A diagram showing how to assemble the stand is packed in the castor bag. Never use a make-shift stand, or legs fixed with woodscrews.

In some models only, in order to fit the stand it may be necessary to remove the feet with the key provided (see illustration).



To fit the stand remove the feet on the TV using the key supplied (see illustration).



Pick location 5M2-A19-K4		Item 0731	Invoicenumber 5540084-0001	Wave 03	Sort location 07-042
Cust.code		Quantity 1			
1958	Stock 33	Invoice and ship to 381403 170866		Order 120597	Date 201
Qty. SPQ 1	Service code 4822 736 14406	Description MODE D'EMPLOI			SPQ 1
			Made in:		

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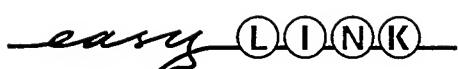
Installation

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EasyLink features are based on the "one touch operation" approach. This means that a sequence of actions are executed at the same time in e.g. both the television and the video cassette recorder if both are provided with the EasyLink function and connected with the eurocable supplied with the video recorder.

p.30  selection of EXT1,
EXT2, EXT3 or FRONT

p.22  bilingual choice + sound info

p.26  continuous subtitles

p.22  info on screen

p.22  personal preference

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 no function

Menu

p.12  select your choice

p.13  picture menu

p.15  sound menu

p.18  features menu

p.12  activate your choice

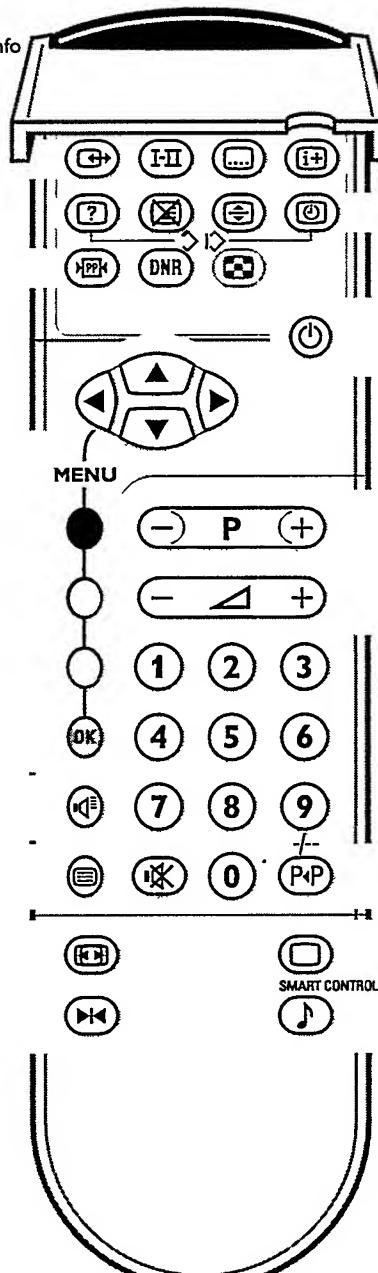
p.17  surround modes

Teletext

p.24  teletext on/off

p.20  picture format

p.23  freeze the picture



Teletext

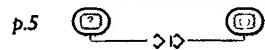
p.26  solution to riddles

 mix tv/txt picture - hold

 enlarge

 time display

Installation



p.11  switch to standby

p.12  programme selection

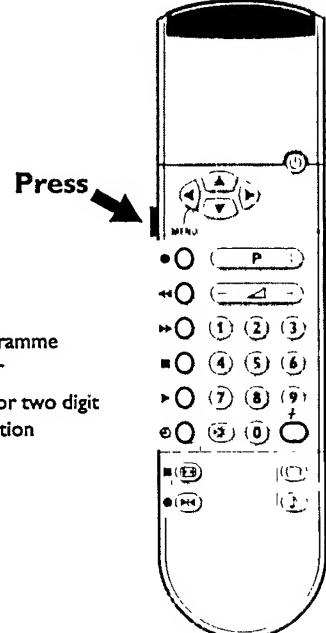
 volume key

p.12  sound temporarily
switched off

p.23  previous programme

p.13  picture

p.15  sound



Your remote control

Installation

Preparation

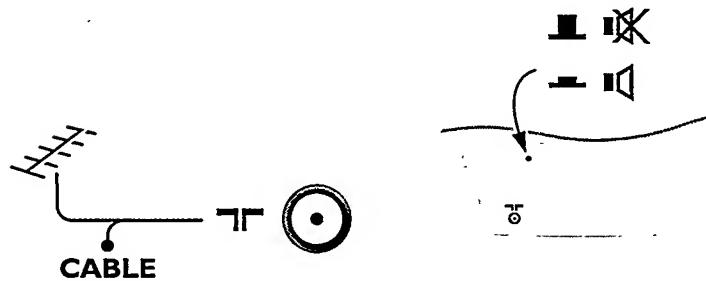
Place the TV on a solid surface.

For ventilation, leave at least 5 cm free all around the TV.

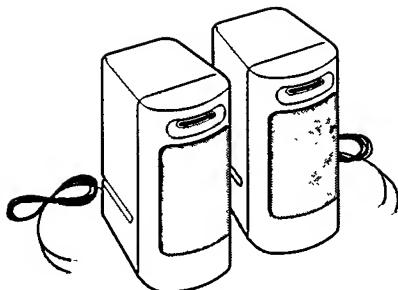
To prevent any unsafe situations, do not place any objects on top of the TV.

Insert the aerial plug tightly into the aerial socket **T** at the back of the TV with an aerial cable of good quality.

You can improve the picture quality by using the suppressor-aerial cable supplied.

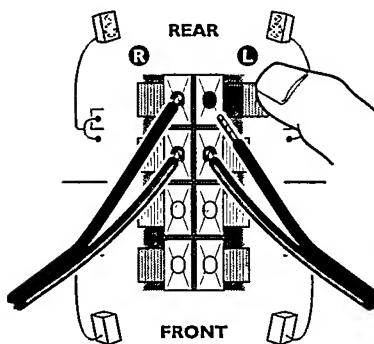


- Check if the loudspeaker switch at the back of the TV is in the **ON** position.



Surround Sound loudspeakers

- Connect the two Surround Sound rear loudspeakers supplied to the connector clips at the back of the TV. Always connect both Surround Sound loudspeakers.
- Connect the left rear loudspeaker at **REAR L** and the right rear loudspeaker at **REAR R** at the back of the set.
- Push the connector clip down and insert the end of the wire into the opening : the positive wire (the one with the black line) to the red loudspeaker connection; the negative wire to the black loudspeaker connection. Do not insert the wires too far.



The Surround Sound loudspeakers should always be located behind or to either side of the listener. If preferred you can also hang the loudspeakers on the wall.

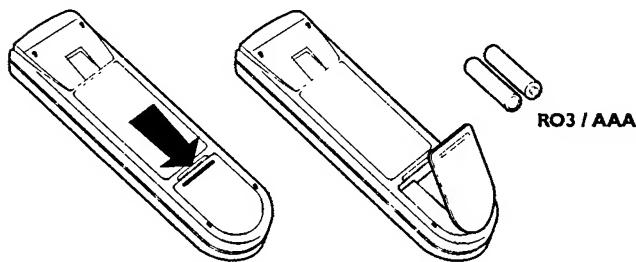
Insert the mains plug in the wall socket with a mains voltage of 220V-240V.

Remote control

Remove the cover of the battery compartment on the back of the remote control.

Insert the 2 batteries supplied (Type R03G-1,5V).

Click the cover back into place.



The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many countries exhausted batteries may not be disposed of with your household waste. Please inform yourself on how to dispose of exhausted batteries according to local regulations.

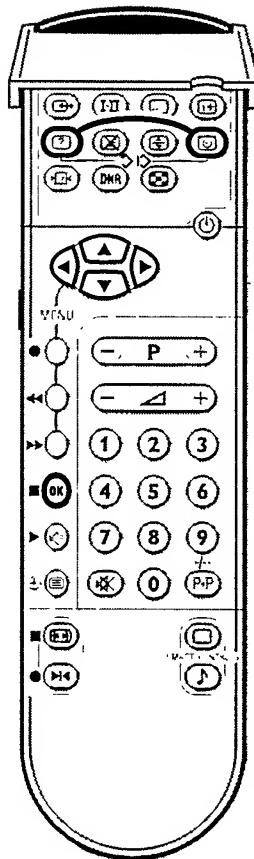
Switch TV on

- Press the power switch ① on the front of your TV.
- ▷ A green or red lamp lights up on the front of your TV.

green **or** red

- ▷ The TV is on.
The screen lights up after a few moments.
- ▷ The TV is on but the screen stays dark.
Your TV is on standby.
- Press a digit key on the remote control.
- ▷ The TV switches on.
The screen lights up.

▷ The green lamp blinks every time you press a key on the remote control.



Select the menu language

You can choose which language the menus are presented in.

When you switch on your set for the first time, the **MENU LANGUAGE** automatically appears on the screen.

See the explanation on your screen. Alternately the explanation automatically appears in the different languages.

If the **MENU LANGUAGE** menu does NOT automatically appear on the screen, proceed as follows :

- Open the door at the top of the remote control.
- Press the two keys **?** and **©** at the same time.
- ▷ The **INSTALLATION** menu appears on the screen.
- ▷ **Menu Language** lights up.
- Press the blue **OK** key.
- ▷ The **MENU LANGUAGE** appears.
- Select the language of your choice with the **▲**, **▼**, **◀** or **▶** keys and press the blue **OK** key.
- ▷ The **INSTALLATION** menu reappears.

All menus will be presented in the language of your choice.

Have you pressed the wrong key ?

*Press the blue **OK** key again and make a new choice.*

INSTALLATION	Menu Language Country Automatic Installation Manual Installation Give Name Reshuffle Favourite Programmes Set up
MENU LANGUAGE	English
COUNTRY	UK Other

Select Country

- Press the **▼** or **▲** keys to select **Country**.
- ▷ **Country** lights up.
- Press the blue **OK** key.
- ▷ The **COUNTRY** menu appears.
- Select the country where you are now located with the **▼**, **▲**, **◀** or **▶** keys and press the blue **OK** key.
- Select **Other** when none of the countries applies.
- ▷ The **INSTALLATION** menu reappears.

Store TV channels

This can be done in two different ways : automatically or manually.

Automatic installation Or

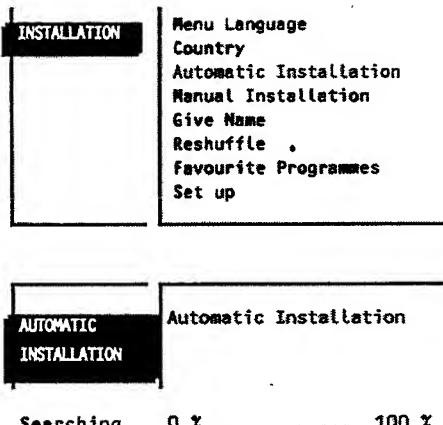
All TV channels are searched for and stored automatically. As far as it is transmitted by the cable company or a TV channel a programme number and a name is attributed automatically as well and filled in in the programme list. If you wish the order of programme numbers and names of stored TV channels can be modified afterwards. Follow very closely and step by step the instructions of the Automatic Installation.

Manual installation

With manual installation it is possible to select whether TV channels are searched for by frequency or channel number.

Follow very closely and step by step the instructions of the Manual Installation procedure. You must go through every step.

Go on to page 7.



Automatic installation

- Select **Automatic Installation** with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ The **AUTOMATIC INSTALLATION** menu appears.
- Press the blue **OK** key again.
- Press the **◀** or **▶** keys to select **On**.
- ▷ The message **Searching** appears as the TV searches for all the channels available in your area.

The automatic installation can be interrupted by pressing the red MENU key.

- ▷ Every time a TV channel is found it is automatically placed under the next free programme number in the programme list.
- ▷ The message **Ready** appears on the screen when the automatic installation is complete. The programmes are stored in the programme list after the message has disappeared.
- If a cable system or a TV channel transmitting a teletext page with the frequencies and programme names of all the TV channels which can be received, is detected, the search is stopped and a programme list appears. The programme list is automatically filled with all the programme numbers and names of the TV channels transmitted.

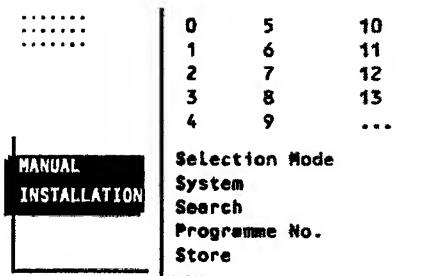
*It is possible that the cable company or the TV channel displays a broadcast selection menu. Layout and items are defined by the cable company or the TV channel. Make your choice of the presented possibilities with the **▲** or **▼** keys and press the blue **OK** key.*

If the TV is connected to a video recorder with the EasyLink function, the TV automatically transfers the stored TV channels to the video recorder.

- ▷ The message **EasyLink : Downloading Presets ...** appears at the bottom of the screen.
- The programme list of the video recorder is now equal to the one of the TV.*

- Press the red **MENU** key.
- ▷ The **INSTALLATION** menu reappears.

Go on to page 9.



Manual installation

- Select **Manual Installation** with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ The **MANUAL INSTALLATION** menu appears.
In the left upper corner of the screen a programme number, a system, a frequency or possibly a channel number are displayed.
- ▷ **Selection Mode** is only present and lights up if the country you selected in the **COUNTRY** menu also offers the channel option.
In this case you can choose either channel or frequency mode.
- Press the **◀** or **▶** keys to select **frequency**, **C-channels** (aerial channels) or **S-channels** (broadcast by a cable company).

1

Select the TV system

Television pictures are not broadcast in the same way in all countries. We speak of different television systems (PAL, SECAM, NTSC,...).

- Select **System** with the **▲** or **▼** keys.

You have your own aerial..... Or You are connected to a cable system

- Select the country or part of the world from where you want to receive the TV channel with the **◀** or **▶** keys.
- Select the country or part of the world where you are now located.

Go on to 2.

2

Search for a TV channel

- o Select **Search** with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ The TV searches for a channel.
- ▷ The frequency or the channel number increases until a TV channel is found. Dependent on the choice you made in the selection mode the searching stops at a frequency or at a channel number.
- ▷ In the bar, which may appear briefly at the bottom of the screen, the broadcaster may transmit its programme name or another message.
- o Press **[i]** under the door of the remote control to recognise which programme is being broadcast.
- ▷ The **MANUAL INSTALLATION** menu disappears temporarily.

Is the reception poor?

You may be able to improve the reception of picture and sound of a TV channel by adjusting the frequency with the **P** - or + key on the remote control. The frequency is adjusted in the block shown in the upper left corner of the screen.

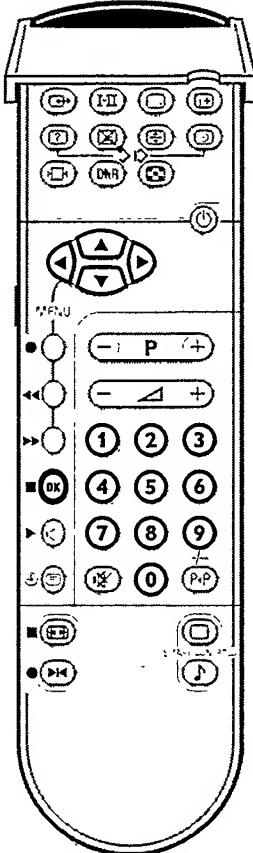
Go on to 3 if you want to store the channel that has been found.

Do you want a different channel ?

- Press the blue **OK** key again to restart the search.

No channel found ?

- Interrupt the searching by pressing the **▲** or **▼** keys.
Make sure that you have selected the correct TV system or that the aerial cable is connected properly. See Tips p. 34.



Direct selection of a TV channel

If you know the frequency, or the C- or S-channel number, enter it directly with the digit keys on the remote control to call up the TV channel. Ask for a list from your cable company or dealer, alternatively consult the Table of frequencies on the inside backcover of this handbook.

- Select **Search** with the **▲** or **▼** keys.
- Enter the 3 digits of the desired frequency or the 2 digits in case of C- or S-channels.
- For frequencies under 100 MHz, first enter a 0. For example : 063.
- ▷ The frequency is automatically finetuned.

Have you entered a wrong number ?

First complete the frequency or the channel number with arbitrary numbers and then start again.

Go on to 3.

3

Enter the programme number

Now assign a number of your choice to the TV channel you have located. In this way you decide the order of all your TV channels.

- Select **Programme No.** with the **▲** or **▼** keys.
- Select with the **◀** or **▶** keys or with the digit keys the desired programme number.

Go on to 4.

4

Store steps 1 to 3

Steps 1 to 3 must be stored in the memory.

- Select **Store** with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ **Stored** appears briefly at the bottom of the screen.
- ▷ The programme number and probably the programme name are stored in the programme list after the message has disappeared.

After the new or extra TV channel has been stored, the TV automatically transfers that (those) TV channel(s) to the video recorder provided with the EasyLink function.

- ▷ *The message : EasyLink : Downloading Presets ... appears at the bottom of the screen.*

The programme list of the video recorder is now equal to the one of the TV.

repeat

If you want to store another TV channel.

- Repeat 1 to 4.

If you are connected to a cable system.

- Begin immediately with 2. You have already selected the TV system in 1 for all channels.

end

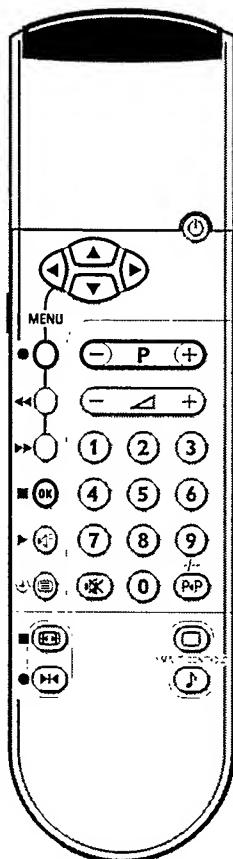
If you have finished storing TV channels.

- Press the red **MENU** key.
- ▷ The **INSTALLATION** menu reappears.

Enter or modify a programme name

GIVE NAME

90	EXT1	0
91	EXT2	1 BBC1
92	EXT3	2 BBC2
93	FRONT	3
94		4
95		5
96	
97		
98		
99		



RESHUFFLE

90	...	0	...	10	...
91	1	BBC1		11	...
92	2	BBC2		12	...
93	3	...		13	...
94			14	...
95			15	...
96	
97					
98					
99					

It is possible to change the name stored in the memory or to assign a name to a TV channel which has not yet been entered. A name with up to 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1,...

Between 99 and 0, you can also name any peripherals that are connected.

- Select **Give Name** with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ The **GIVE NAME** menu appears.
- Select the TV channel to be modified or assigned a name with the **▲**, **▼**, **◀** or **▶** keys and press the blue **OK** key.
- ▷ A block appears on the first position of the name.
- Select with the **◀** or **▶** keys the position of the letter or number you want to change or to enter.
- Select with the **▲** or **▼** keys the letter or number you want to enter or to correct. A space, numbers or other special characters are located between Z and A.
- ▷ *Did you fill in a wrong letter or number ?*
Select with the **▲** or **▼** keys the position of the letter or number you want to modify.
- ▷ Select with the **◀** or **▶** keys the correct letter or number.
- When the complete name is entered,
- Press the blue **OK** key.
- Select another TV channel to be modified or named with the **▲**, **▼**, **◀** or **▶** keys and press the blue **OK** key.
- Repeat as described above.
- When you have finished entering or modifying programme names.
- Press the red **MENU** key.
- ▷ The **INSTALLATION** menu reappears.

Reshuffle the programme list

According to your preference you can change the order of the stored TV channels.

When you are satisfied with the order of the programme list, go to page 10.

- Select **Reshuffle** with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ The menu **RESHUFFLE** appears.
- Select the TV channel you want to change the programme number of with the **▲**, **▼**, **◀** or **▶** keys and press the blue **OK** key.
- ▷ The programme number and the name of the TV channel appear in a black block.
- Use the **◀** or **▶** keys to select another column of the programme list.
- Use the **▲**, **▼**, **◀** or **▶** keys to move to the number where you want to locate the TV channel.
- Press the blue **OK** key.
- ▷ The TV channel moves to the selected programme number.
The TV channel which was located on that position automatically moves to the programme number of the TV channel you have modified.
- Repeat this for all the other TV channels you want to swap.
- When all the TV channels are allocated as you like :
- Press the red **MENU** key.
- ▷ The **INSTALLATION** menu appears again.

Select Favourite TV channels

During the installation all the stored TV channels have automatically been placed into the favourite list. This will make selection of only your favourite TV channels a lot easier and faster.

In the Favourite Programmes menu you can indicate for each TV channel if you want to keep that TV channel as a favourite.

You can also do this for a programme number reserved for the programmes you receive from your decoder.

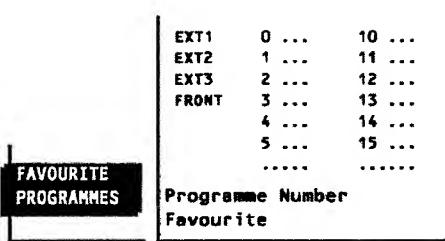
After leaving the installation you can browse through the TV channels by pressing the P - or + keys. Only those TV channels which are in the favourite list will be displayed. The non-favourite TV channels can still be selected with the digit keys.

- o Select Favourite Programmes with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ The FAVOURITE PROGRAMMES menu appears.
- ▷ Programme Number lights up.
- o Select the programme number of a TV channel with the digit keys.
- o Select Favourite with the **▲** or **▼** keys.
- o Press the **◀** or **▶** keys to select Yes or No.
In this way you decide whether you want to keep the selected TV channel as a favourite TV channel or not.
Repeat this for every TV channel you want to change into a favourite or a non-favourite TV channel.
- o Press the red **MENU** key again if you have finished placing TV channels in the favourite list.
- ▷ The INSTALLATION menu reappears.

If the TV is connected to a video recorder with the EasyLink function, the TV automatically transfers the reshuffled or modified TV channels to the video recorder.

- ▷ The message **EASYLINK : Downloading Presets ...** appears at the bottom of the screen.

The programme list of the video recorder is equal again to the one of the TV.



easy **L** **I** **N** **K**

Install TV Set up

Different options can be selected depending on the different peripheral equipment you may have connected to your TV.

- Select **Set up** with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ The **SET UP** menu appears.

CD-i/Photo CD

See Connect Peripheral Equipment, TV and a CD-i/Photo CD, p. 28.

Define Decoder/Descrambler programme numbers

If you have connected a decoder or a descrambler, see p. 29, you can define one or more programme numbers as decoder programme numbers.

- Select **Decoder/Descrambler** with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ The **DECODER/DESCRAMBLER** menu appears.

- Select **Programme** with the **▲** or **▼** keys.
- ▷ **Programme** lights up.
- Select the programme number under which you have stored the programme coming from your decoder with the digit keys.
- Select **Decoder Status** with the **▲** or **▼** keys.
- ▷ **Decoder Status** lights up.
- Press the **◀** or **▶** keys to select **Off**, **EXT1** or **EXT2**, the euroconnector where you connected your decoder.
Select **Off** if you do not want the selected programme number being activated as a decoder programme number.
- Press the red **MENU** key.
- ▷ The **SET UP** menu reappears.

*If the TV is connected to a video recorder with the EasyLink function, the message **EasyLink: Downloading Presets....** appears at the bottom of the screen.
The programme list of the video recorder is equal again to the one of the TV.*

Information Line

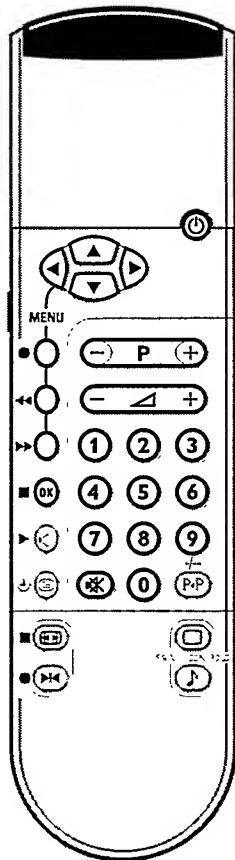
- Select **Information Line** with the **▲** or **▼** keys and press the blue **OK** key.
- Press the **◀** or **▶** keys to select **On**.
- ▷ After the selection of a TV channel or after pressing the **[i+]** key on the remote control, a TV channel which broadcasts teletext may transmit the name of the TV channel or the programme name or another message which appears briefly in the information line at the bottom of the screen.
- Press the **◀** or **▶** keys to select **Off**.
- ▷ The information line will only appear after pressing the **[i+]** key on the remote control, see p. 7, and not after the selection of a TV channel.
- Press the red **MENU** key.
- ▷ The **INSTALLATION** menu reappears.

Fast exit from the menus

- Keep the red **MENU** key pressed to switch off all menus.

Operation

Every time you press a key on the remote control, a green lamp on the front of your TV blinks.



Switch TV on

- Press ① on the front of your TV.
- ▷ A green lamp lights up and the programme appears.
- ▷ Does a red lamp light up ? Your TV is on standby. Read on.

Switch to standby

- Press the red standby key ⏻ at the top of the remote control to switch the TV off temporarily.
- ▷ A red lamp on the TV lights up.
- Press the digit keys or P - or + in order to switch the TV on again. If for a period of 10 minutes no aerial signal is received, then your set automatically switches to standby.

Your TV consumes energy in the standby mode. Energy consumption contributes to air and water pollution. We advise to switch off your TV overnight instead of leaving it on standby. You save energy and the picture tube is demagnetised which maintains good picture quality.

Select TV channels

- Select the TV channel with the digit keys or with the P - or + keys on the remote control or with the - or + keys at the top of the TV.
- For a two digit programme number, enter the second digit within 2 seconds. Browse through the TV channels in the Favourite list.
- Press the P - or + keys repeatedly.

Adjust the volume

- Press ⏻ - or +.

If you want to store the volume adjustment in the memory, see the Features menu, Store PP, p. 18, to store the same volume adjustment for all the stored TV channels.

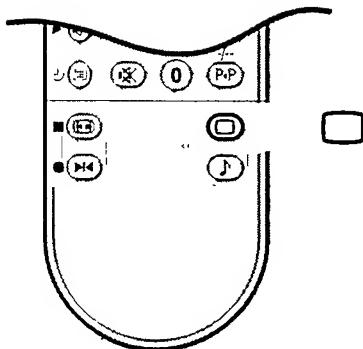
Temporarily interrupt the sound

 Sound Muted

- Press .
- ▷ The sound is temporarily interrupted.
- Press  again to restore the sound.

Switch menus on and off

- Press the red, green or yellow key on the remote control.
- ▷ The PICTURE, SOUND or FEATURES menu appears.
- Use the ▲ or ▼ keys to make a selection of the menu items.
- ▷ Your selection lights up.
- Press the blue OK key on the remote control to activate the selected item or to enter the submenu.
- Press the red, green or yellow key again to return to the previous menu.
- Keep the red, green or yellow key pressed to switch off all menus.



Select the pre-defined picture settings

You can choose among six different pre-defined settings with the key of the smart controls on the remote control.

- Press the SMART CONTROLS' key repeatedly to select : **Soft, Natural, Rich, Sport or Personal.**
- ▷ The picture setting possibilities are displayed briefly on top of the screen. The picture settings correspond with a specific predefined setting of Contrast, Colour, Sharpness and Contrast Plus.
- Personal refers to the personal preference settings of Contrast, Colour, Sharpness and Contrast Plus which you can adjust in the PICTURE menu and store (except Sharpness) with **Store PP** in the FEATURES menu.



Adjust picture settings

- Press the red **MENU** key on the remote control.
- ▷ The PICTURE menu appears.
- Select with the **▲** and **▼** keys the adjustments of **Contrast, Brightness, Colour, Sharpness, Tint, Digital Scan** and **Contrast Plus** you want to change.

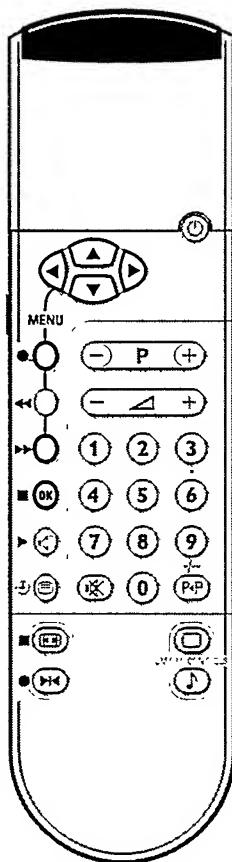
*When you are watching a TV channel in the NTSC-system, the option **Hue** also appears and can be adjusted in the PICTURE menu.*

- Press the **◀** or **▶** keys to alter the selected adjustment.
- ▷ The PICTURE menu disappears and only the selected menu item remains (including its bar) on the screen.
- ▷ The PICTURE menu reappears after a few moments or by pressing the blue **OK** key.
- Now you can select another adjustment with the **▲** and **▼** keys.
- ▷ The smart picture setting is set to **Manual** until the modified adjustments are stored.

Sharpness

The selected setting for Sharpness is stored only for the selected TV channel after the indication disappeared.

You can adjust the Sharpness for each TV channel separately.



FEATURES

- Store PP
- Programmes
- Sleeptimer
- Message
- Child Lock

Tint

- o Press **◀** or **▶** to select the colour temperature : **Normal**, **Warm** or **Cool**.
- o Press the blue **OK** key.
- ▷ The **PICTURE** menu reappears.

Digital Scan (Line Flicker Reduction)

In certain circumstances while watching TV programmes it may be preferred to switch off the digital scan line flicker reduction.

- o Press the **◀** or **▶** keys to select **On** or **Off** and press the blue **OK** key.
- ▷ The **PICTURE** menu reappears.

Contrast Plus

It is preferred to switch **On** the Contrast Plus function to make the contrast between darker and brighter picture parts more outspoken.

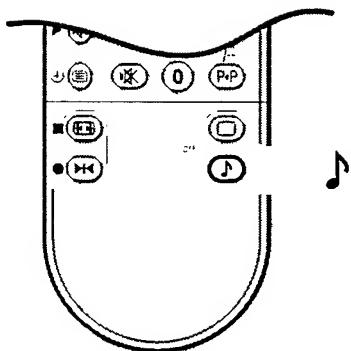
In certain circumstances it may be preferred to switch **Off** Contrast Plus.

- o Press the **◀** or **▶** keys to select **On** or **Off** and press the blue **OK** key.
- ▷ The **PICTURE** menu reappears.

If you want to store the modified adjustments for Contrast, Brightness, Colour, Tint and Contrast Plus for all TV channels.

- o Press the yellow **MENU** key.
- ▷ The **FEATURES** menu appears.
- o Select **Store PP** with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ The message **Stored** appears briefly on the bottom of the screen.
- ▷ You have created and stored a new **Personal picture setting**.

- o Press the red **MENU** key.
- ▷ The **PICTURE** menu reappears.
- o Press the red key again to switch off the **PICTURE** menu.



Select the pre-defined sound settings

You can choose among six different pre-defined sound styles with the  key of the Smart Controls on the remote control.

- Press the SMART CONTROLS'  key repeatedly to select : **Movie**, **Speech**, **Music** or **Personal**.
- ▷ The sound styles are displayed briefly at the top of the screen. Each sound style corresponds with a specific programmed setting of the treble and bass adjustments.
- Personal refers to the personal preference settings of volume, balance, treble and bass which you can adjust in the sound menu and store with **Store PP** in the FEATURES menu.

Adjust sound settings

- Press the green MENU key on the remote control.
- ▷ The **SOUND** menu appears.

Volume, Graphic Equalizer

- Select **Volume** with the  or  keys .
- Press the  or  keys to change the volume adjustment.
- Select **Graphic Equalizer** with the  or  keys and press the blue **OK** key.
- ▷ The **GRAPHIC EQUALIZER** menu appears.
- Press the  or  keys to select an equalizer setting.
- Press the  or  keys to adjust the settings.
- ▷ The sound style is set to **Manual** until the modified adjustments of the graphic equalizer are stored.

If you want to store the adjustments for all the TV channels.

- Press the yellow MENU key.
- ▷ The **FEATURES** menu appears.
- Select **Store PP** with the  or  keys and press the blue **OK** key.
- ▷ The message **Stored** appears briefly at the bottom of the screen.
- ▷ You have created and stored a new **Personal** sound style.

Switch Loudness on or off

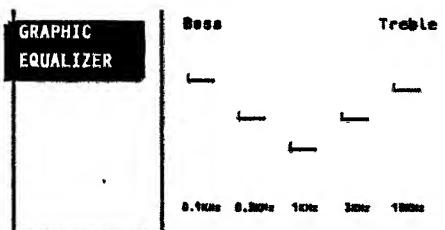
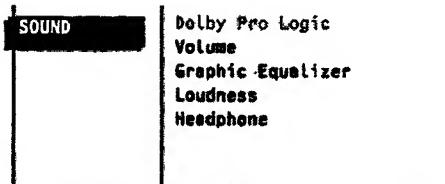
When **Loudness On** is selected, the low and high frequencies are amplified so that the natural balance is restored when listening at a low volume. The selected setting for Loudness is stored for all TV channels.

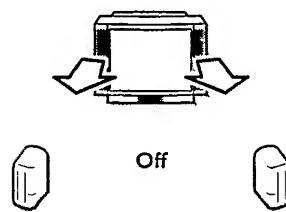
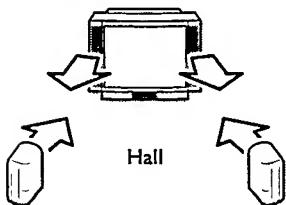
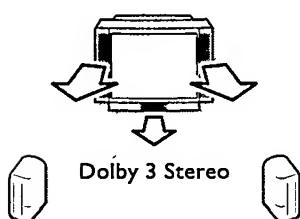
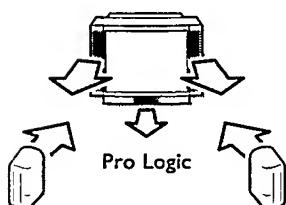
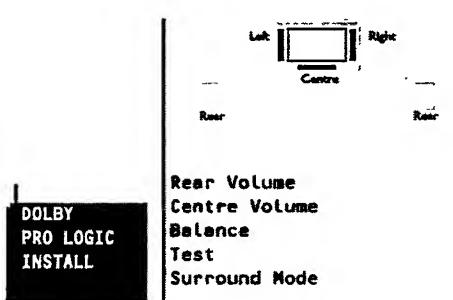
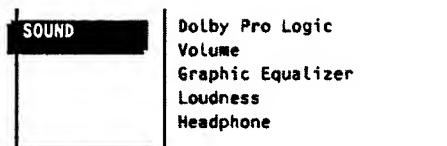
Headphone

See Connect Peripheral Equipment, p. 28 for the connection of your headphone.

- Select **Headphone** with the  or  keys and press the blue **OK** key.
- ▷ The **HEADPHONE** menu appears.
- Select with the  or  keys the adjustments **Volume** or **Dual**.
- ▷ The selected adjustment lights up.
- Press the  or  keys to regulate the selected adjustment or to select the dubbed or original language when the TV channel broadcasts in 2 languages.
- Press the green MENU key.
- ▷ The **SOUND** menu reappears.
- Press the green key again to switch off the sound menu.

The Volume adjustment can be stored for all the TV channels with **Store PP** in the **FEATURES** menu.





Dolby* Pro Logic Install

- Select **Dolby Pro Logic** with the keys **▲** or **▼** and press the blue **OK** key.
- ▷ The **DOLBY PRO LOGIC** menu appears.
- Most programmes will sound good with the volume balance between the centre, left and right and rear loudspeakers in an equally loud position.
- Select **Surround Mode** with the keys **▲** or **▼**.
- Press the keys **◀** or **▶** to select **Pro Logic**.
- Select **Test** with the keys **▲** or **▼**.
- Press the keys **◀** or **▶** to switch **Test on**.
- ▷ A steady noise tone is switched sequentially through the left, centre, right and rear loudspeakers, for 2 seconds each. This enables you to adjust the volume of the separate loudspeakers.
The loudspeakers activated light up in the on screen graphic.
- Select with the keys **▲** or **▼** **Rear Volume**, **Centre Volume** or **Balance**.
- ▷ The selected adjustment lights up.
- Press the keys **◀** or **▶** to alter the selected adjustment.
- Select **Test** again with the keys **▲** or **▼**.
- Press the keys **◀** or **▶** to switch **Test off** again.

Surround mode

- Select **Surround Mode** with the keys **▲** or **▼**.
- ▷ **Surround Mode** lights up.
- Press the keys **◀** or **▶** to select the preferred surround mode : **Pro Logic**, **Dolby 3 Stereo**, **Hall** or **Off**.

Dolby Pro Logic is selected automatically when it is activated by the broadcaster and when the selected sound mode is not mono or analogue.

Pro Logic (with Dolby Surround broadcasting)

- ▷ In addition to the left and right front speakers, the centre and the rear surround loudspeakers reproduce the Dolby Surround Pro Logic sounds. This 4-channel sound is always recorded when the movie or programme is marked with **DOLBY SURROUND**.
- This mode is especially recommended for such programmes or movies.

Dolby 3 Stereo (with Dolby Surround broadcasting)

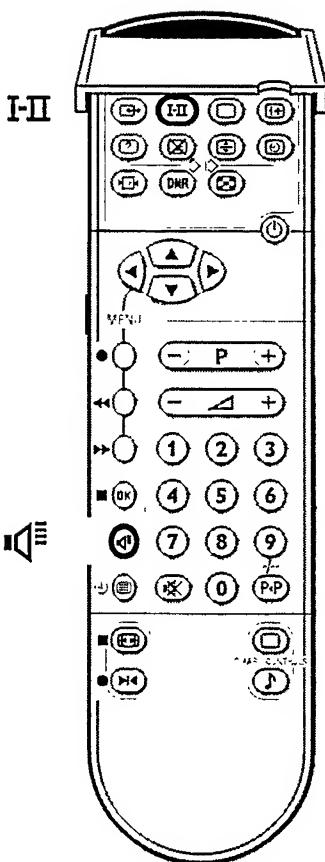
- ▷ The Dolby 3 Stereo sound signal is now distributed over the front left, the front right and the centre loudspeakers.
- ▷ The rear loudspeakers do not produce any signal.

Hall (with Dolby Surround broadcasting)

- ▷ The centre sound signal is distributed over the rear loudspeakers which creates a hall effect from the rear.
- ▷ The centre loudspeaker does not produce any signal.
This mode is recommended when you wish to add surround sound to a broadcast which is not encoded Dolby Surround.

Off

- ▷ This mode reproduces only the left and right front sound signals.
You only hear a stereo sound if the broadcast which you are watching or listening to is transmitted in stereo or digital sound.
- Press the green **MENU** key.
- ▷ The **SOUND** menu reappears.



Select the Surround modes with the remote control

- Press the white **I-II** key repeatedly to select the preferred sound mode : **Pro Logic, Dolby 3 Stereo, Hall or Off.**

Select the sound mode

Depending on the sound the TV channel transmits, your TV will choose between stereo or digital sound unless you make a sound choice. In case of weak stereo or digital sound signals, due to the transmission, select analogue or mono.

- Press the **I-II** key under the door of the remote control to select the preferred sound mode :
 - Stereo or Mono** if the channel transmits stereo sound
 - Digital Sound or Digital Sound available** if the TV channel transmits digital sound.

Adjust the basic picture and sound settings with the menu key on top of the TV

Should your remote control be lost or broken you can still change some of the basic picture and sound settings.

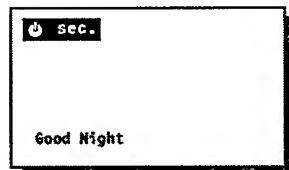
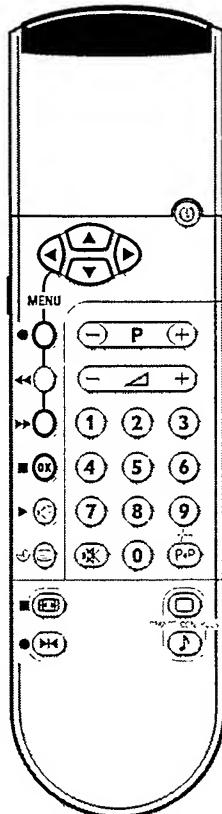
- Press the **MENU** key at the top of the TV.
- The adjustment **Volume**, including a bar, appears on the screen.
- Press the **-** or **+** key to adjust the volume.
- Press the **MENU** key again or repeatedly to select a following adjustment.
- The adjustments **Volume, Brightness, Colour or Contrast**, including a bar, appear on the screen.
- Press the **-** or **+** key to regulate the selected adjustment.
- Press the **MENU** key again after you selected the last adjustment.
- The menu adjustments disappear.

The selected adjustment automatically switches off when after 10 sec. no action has been executed.

Features

FEATURES

Store PP
Programmes
Sleeptimer
Message
Child Lock



- Press the yellow **MENU** key.
- ▷ The **FEATURES** menu appears.
- Use the **▲** and **▼** keys to make your selection in the **FEATURES** menu.
- ▷ Your selection lights up.

Store PP

- Select **Store PP**.
- Press the blue **OK** key.
- ▷ **Store PP** lights up and the message **Stored** appears briefly on the bottom of the screen.
- ▷ The adjustments of Contrast, Brightness, Colour and Contrast Plus made in the picture menu and the adjustments of Volume and Equalizer made in the sound menu are stored in memory for all the stored TV channels.

Select Programme list

- Select **Programmes**.
- Press the blue **OK** key.
- ▷ A page with an overview of stored TV channels, together with the names you entered for the connected peripheral equipment appears. Programme numbers from the favourite list are displayed in white characters. Programme numbers which are not in the favourite list are displayed in black characters. The current TV channel on the screen is indicated with a black block.
- Press the keys **▼** or **▲** to select a TV channel.
- Press the keys **◀** or **▶** to select another column of the programme list.
- Press **OK** to select the desired TV channel.

Sleeptimer

With the sleeptimer you can set a time period after which the TV should switch itself off to standby.

- Select **Sleeptimer**.
- Hold the **▶** key pressed down.
- ▷ The counter runs from **Off** up to **180 min.**
- Hold the **◀** key pressed down.
- ▷ The counter runs from **180 min.** down to **Off**.

One minute before the TV is set to go to standby, the remaining minute and the message **Good Night** appear on screen. You can always switch off your set earlier or change the set time.

Child Lock

If the child lock is on, the TV can only be switched on with the remote control. The - and + keys on top of the TV cannot be used to select a TV channel. In this way you can prevent unauthorised use of your TV.

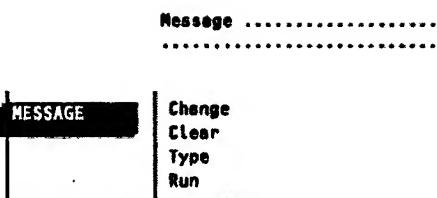
If the message **Child Lock ON** appears, the child lock must be switched off before you can use the - and + keys on the TV to select a TV channel.

- Select **Child Lock**.
- Press the **◀** or **▶** keys to select **On** or **Off**.

Message

With this function you can enter a personal message which will be displayed automatically when the set is switched on from standby.

For example: *I'll be late this evening. Don't wait for dinner.*



- o Select **Message** with the **▲** or **▼** keys.
- o Press the blue **OK** key.
- ▷ The **MESSAGE** menu appears and consists of a message part and a selection menu.

- o Select **Change** with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ A block appears on the first position of the first message line.
- o Select with the **▲** or **▼** keys the letter or number you want to enter.
- o Select with the **▶** key the next position.
- o Enter the letters or numbers.

You can enter text on 2 lines of 27 characters each.

Did you enter in a wrong letter or number ?

- o Select with the **◀** or **▶** keys the position of the letter or number you want to modify.
- o Select with the **▲** or **▼** keys the correct letter or number.
- o Press the blue **OK** key when you have entered the complete message.
- o Press the **▲** or **▼** keys to make a different selection in the message menu.

Remove message

- o Select **Clear** and press the blue **OK** key to remove a previous message.
- ▷ The previous message is removed.

Message type

- o Select **Type**.
- ▷ **Type** lights up.
- o Press the **◀** or **▶** keys to select the way the message displayed : **Wipe**, **Slide**, **Fall** or **Fade**.

Run message

- o Select **Run**.
- ▷ **Run** lights up.
- o Press the **◀** or **▶** keys to select the display frequency : **Continuous**, **Once** or **No**.

Display message

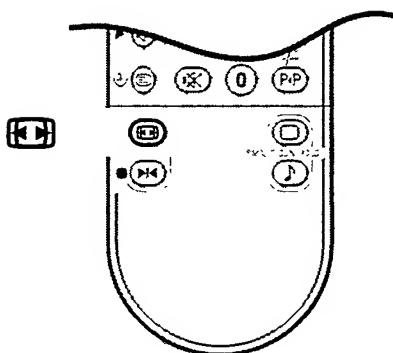
- o Switch the TV to standby.
- ▷ The message appears on the screen when the TV is switched on again. If you selected **Once**, the message will disappear from the screen after 30 seconds. If you selected **Continuous**, the message will appear on the screen until the TV is switched off with the power key ① on the front of the TV. The message does NOT appear when Continuous Subtitles have been switched **On** and **█** is displayed on the bottom of the screen. See Teletext, p. 26.

- o Press the yellow **MENU** key.
- ▷ The **FEATURES** menu reappears.
- o Press the yellow key again to switch off the **FEATURES** menu.

Other functions

Picture format

PALplus



When the broadcaster transmits PALplus signals, the movie expand 16:9 picture format is selected automatically.

► The whole screen is filled up.

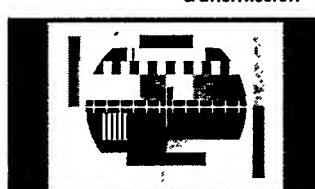
- Press  repeatedly to select a picture format when the broadcaster does not transmit PALplus signals :

- a conventional 4:3 picture format
- an expanded 14:9 picture format
- a full expanded 16:9 picture format
- a super wide picture format
- a wide screen picture format

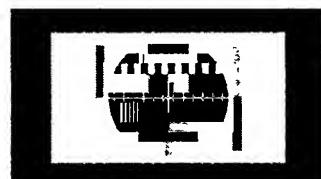
► The information **4:3, Movie Expand 14:9, Movie Expand 16:9, MOVIE EXPAND 16:9** (with subtitling), **Super Wide** or **Wide Screen** appears briefly on the screen according to the selected picture format.

Selected Picture format

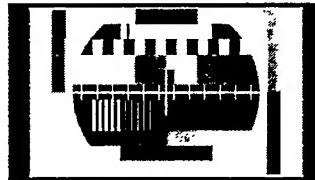
4:3



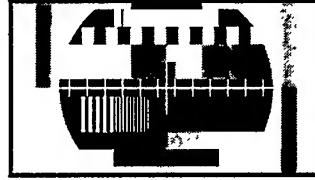
16:9 transmission (letterbox)



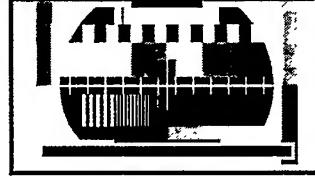
Movie Expand 14:9



Movie Expand 16:9

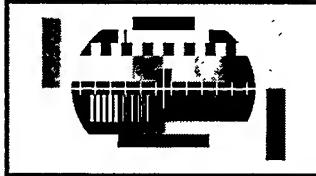


**MOVIE EXPAND 16:9
(with subtitling)**



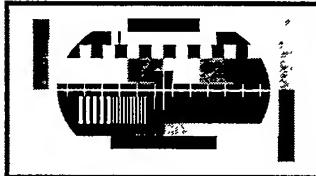
Selected Picture format

Super Wide

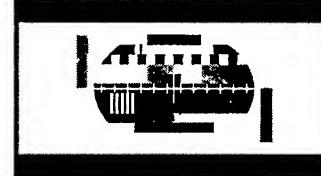
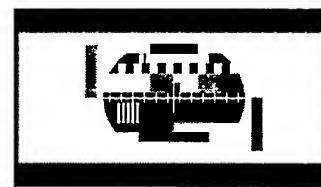


**4:3
transmission**

Wide Screen



**16:9
transmission (letterbox)**

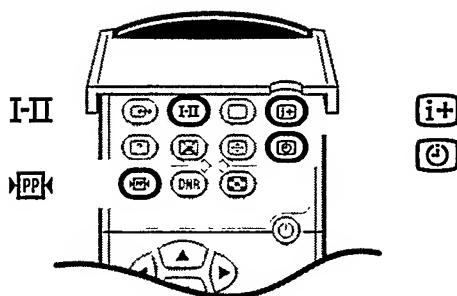


Making subtitles visible

When you are in Movie Expand 14:9 or 16:9 picture format you can manipulate your picture with the **▲** or **▼** keys.

- Press the **▲** key to scroll up the picture to make subtitles visible.
- Press the **▼** key to scroll down the picture.

Picture up/down is not applicable with super wide and wide screen picture format.



Open the door of the remote control.

Information on screen

After the selection of a TV channel or a programme from a peripheral or after pressing the **i+** key the following information **may** appear briefly or continuously on your screen :

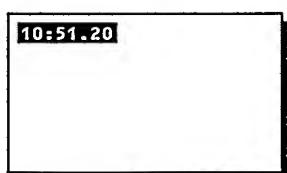
- the programme number and the name of the selected TV channel
- information from the broadcaster in a bar at the bottom of the screen (e.g. the name of the TV channel, the programme title or another message)
- **Digital Sound** or **Digital Sound available** if the TV channel transmits digital sound
- the currently selected sound mode if the TV channel transmits stereo or digital sound
- **Dolby Pro Logic** when this surround mode is activated by the broadcaster and when the selected sound mode is not mono or analogue
- the selected Surround sound mode : Pro Logic, Dolby 3 Stereo, Hall or Off
- **Sound muted** when the sound is temporarily interrupted
- **Dual I or II** in case of bilingual broadcast
- the selected DNR setting (see p. 23).

Permanent Programme Number

- Press **i+** for approximately five seconds.
- ▷ The permanent programme number remains in the upper right corner of the screen when it was off, or disappears when it was on.

Bilingual broadcast

- Press the **I-II** key repeatedly to select language I or II when the TV channel broadcasts in 2 languages, dubbed or original language (e.g. Eurosport) or to select analogue or digital when the TV channel broadcasts in digital sound.
- ▷ **Dual I or II** appears briefly on the screen.
The setting is stored in the memory for the selected TV channel when switching to another TV channel or to standby.
You can select Dual for each TV channel separately.



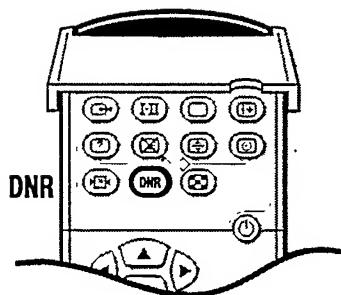
Clock

- Press **②**.
- ▷ The time, downloaded from the TV channel (with teletext) stored on programme number 1 or under the lowest favourite programme number appears in the upper left hand corner of the screen.
This is not possible when Continuous Subtitles have been switched on and **...** is displayed on the bottom of the screen. See Teletext, p. 26.
- Press **②** again in order to switch off the clock.

PP key

With the green **PP** key you can call up the picture and sound adjustments which have been stored with Store PP in the Features menu, p. 18.

- Press **PP**.



DNR

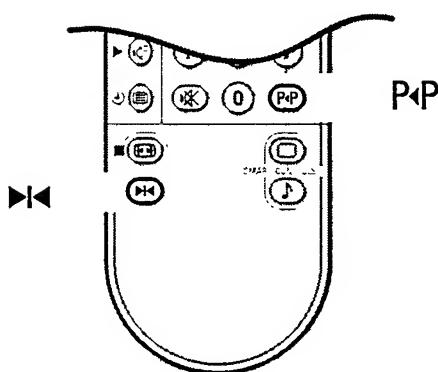
With DNR you can reduce the image noise and improve picture quality when receiving weak signals.

- Press the DNR key repeatedly to select **DNR min**, **DNR med**, **DNR max** or **DNR off**.
- **DNR med** offers you optimum picture quality and is the usual setting for normal strength signals.
- **DNR max** should only be used to correct poor picture quality.

▷ Your selection appears for a moment at the top of the screen.

The setting is stored in memory for the selected TV channel after the indication disappeared from the screen.

You can select the DNR setting for each channel separately.



Freeze the picture

- Press **►◀**.
- ▷ The picture is frozen.
- Press **►◀** to get moving pictures again.

Select previous programme

- Press the **P-P** key.
- ▷ The previously selected TV channel is displayed.
- The **-/-** indication has a video recorder function.

Teletext

Most TV channels broadcast information via teletext. Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the main index (usually page 100). TV programmes are sometimes subtitled for the hard of hearing.

Depending on the TV channel, teletext is transmitted in different systems. The system utilised can be recognised by the options line at the bottom of the screen. The colours used in the options line correspond with the colour keys of your remote control.

About the Easy Text system

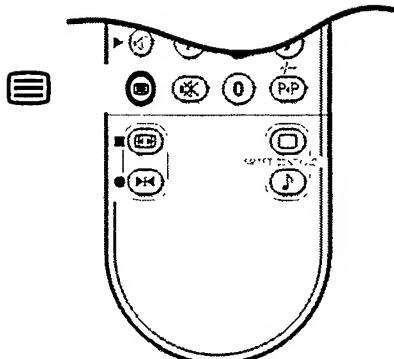
The Easy Text system makes use of a memory with a high level of intelligence. By making maximum use of this intelligence it is possible that in most cases the selected page appears on the screen almost immediately. The only condition is that the teletext broadcast of the particular TV channel is switched on for at least half a minute.

The major advantages of this Easy Text system are :

A considerable **reduced waiting time** by predicting what you will probably select and which results in :

- a fast and direct selection of previous and following pages which are in transmission
- the precapturing of the page numbers referred to in the displayed page
- the direct selection of the pages referred to in the options line
- the creation of a **habit watcher** list : frequently used pages are put in a list of preferred pages so that they are immediately available afterwards. The pages are stored in the memory when switching off teletext or when switching to standby.

The precapturing of all the subpages to be controlled by the teletext user.



Switch Teletext on and off

- Select the TV channel for the desired teletext broadcast.
- Press  in order to switch on the teletext. If teletext is switched on when a menu is on the screen, the menu will automatically be removed.
- ▷ The main index page appears on the screen together with two information lines at the top and one option line at the bottom of the screen.
- Press  again in order to switch off teletext.
- ▷ The TV channel reappears.

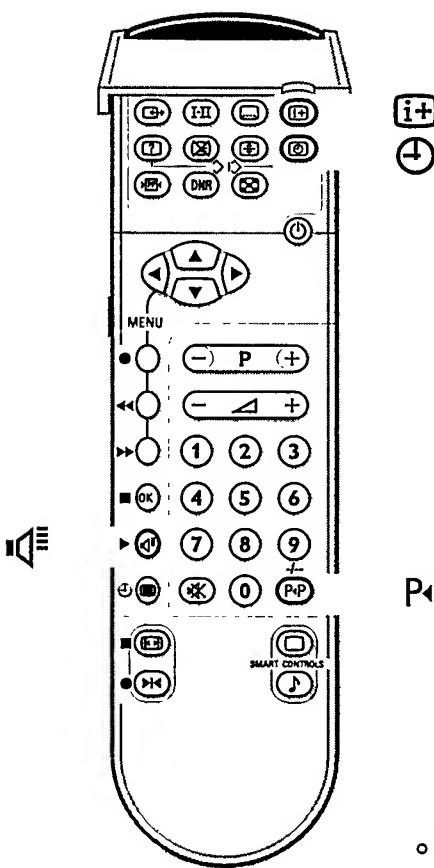
Select a Teletext page

With the digit keys

- Enter the desired page number with the digit keys.
- ▷ The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.
- ▷ A message appears when you have entered a non-existent or an incorrect page number. Page numbers beginning with 0 or 9 do not exist.
- Enter the correct page number.

Or With the option line

- Select with the colour keys, corresponding to the coloured options at the bottom of the screen and depending on the teletext system the selected TV channel transmits.
 - the previous   pages
 - the 2 previously selected pages
 - another subject



Quickly run through the teletext pages

- Press ▼ to run through the previous pages.
- Press ▲ to run through the following pages.

Select the previously selected teletext page

- Press the P.P key.
- ▷ The previously selected teletext page is displayed.

Select subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.

The coloured number in the first information line refers to the displayed subpage.

P.P

The other subpages can be selected in 2 ways :

With the ▲ or ▼ keys.

- The other subpage numbers appear in white as soon as the transmission has found them and they are stored in the memory so that they are available while the teletext page is on screen.
- Select with the ▲ or ▼ keys the previous or the following subpage.

Or By adding a subcode.

- Open the door of the remote control.
- Press (2).
- Enter the desired subpage with the digit keys : e.g. 3 for the third page of seven subpages.
- ▷ The TV searches for the selected subpage.
- Press (2) again in order to cancel the subcode.
- ▷ The subpages rotate automatically.
- Press (2) again.
- ▷ The information line with the available subpages appears.

Select the index teletext page

- Press the white  key.
- ▷ The main index, usually p. 100, appears.

Or Press .

- ▷ A T.O.P. overview of the teletext subjects available appears.
- Not all TV channels broadcast the T.O.P. teletext.
- When the teletext system is not T.O.P. teletext, a message appears at the top of the screen.
- Select with the ▲, ▼, ▲ or ▼ keys the desired subject and pagenumber.
- Press the blue **OK** key.
- ▷ The selected page appears.

Select Continuous Subtitles

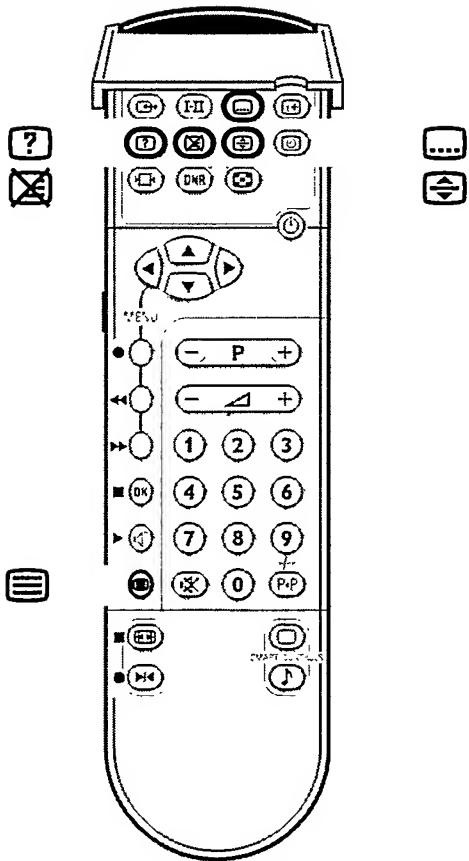
TV channels which broadcast teletext often transmit certain programmes with subtitling. Sometimes more than one subtitle page is available. For each TV channel you can store a subtitle page which will be displayed continuously if the programme being broadcast is transmitted with subtitles.

- Press  in order to switch on teletext.
- Select the proper subtitle page with the digit keys.
- ▷ The selected subtitle page appears and also the subtitles when the programme transmitted is subtitled.
- Press  under the door of the remote control.
- ▷ The message **Subtitle stored** appears.
- Press  in order to switch off teletext.
- ▷ Every time a programme of the selected TV channel is subtitled, the subtitles will be available.

When there are no subtitles available, only  is displayed at the bottom of the screen.

- Press  under the door of the remote control to switch the subtitles on or off.
- ▷ The message **Subtitles On or Off** appears.

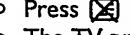
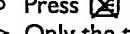
For every TV channel the subtitle page should be stored separately with the  key under the door of the remote control.



Select Special teletext functions

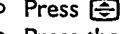
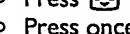
- Press  in order to switch on teletext.
- Open the door of the remote control.

Mix / Interrupt

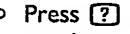
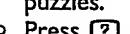
- Press .
- ▷ The teletext page and the TV programme appear on the screen at the same time.
- Press  again.
- ▷ The TV programme appears.
- ▷  at the top of the screen indicates that you are still in the teletext mode. Before interrupting teletext, you can select a page number.
- When the page has been found, the page number appears on your screen.
- Press  again.
- ▷ Only the teletext page is displayed.



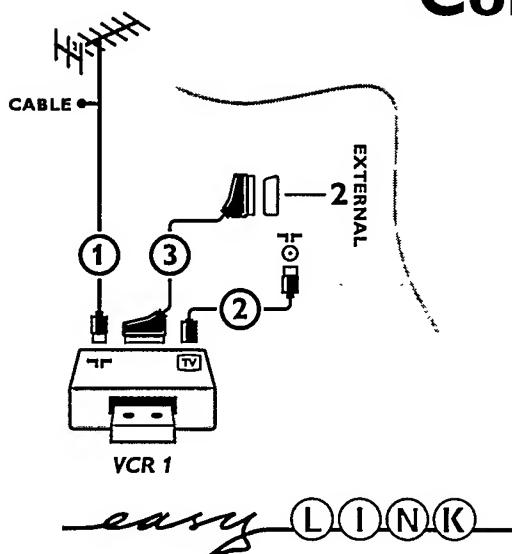
Enlarge

- Press  to enlarge the top half of the teletext page.
- Press the  or  keys to scroll the text line per line.
- Press  again to enlarge the bottom half of the teletext page.
- Press once more to return to normal page size.

Reveal

- Press  to call up concealed information, such as solutions to riddles and puzzles.
- Press  again in order to switch off the concealed information.

Connect Peripheral Equipment



There is a wide range of audio and video equipment that can be connected to your TV.

The following connection diagrams show you where the different equipment should be connected at the back or the right side of the TV.

TV and video recorder

- Connect the aerial cables ① and ② as shown opposite. Better picture quality can be obtained if you also connect a eurocable ③.

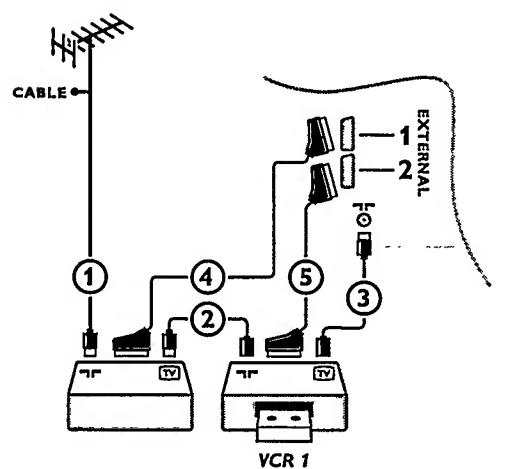
If your video recorder is provided with the EasyLink function, the eurocable supplied with it, should be connected to EXTERNAL 2 to benefit of the EasyLink functionality.

Search for and store the test signal of the video recorder

- Unplug the aerial cable ① from the aerial socket TV of your video recorder.
- Switch on your TV and put the video recorder on the test signal. (See the handbook for your video recorder.)
- Enter the Installation menu.
- Search for the test signal of your video recorder in the same way as you searched for and stored the TV signals. See Installation, Searching for and storing TV channels, Manual Installation, p. 7.
- Store the test signal either under programme number 0 or between 50 and 99.
- Replace the aerial cable in the aerial socket TV of your video recorder after you have stored the test signal.

TV, video recorder and other peripherals (except CD-i/Photo CD)

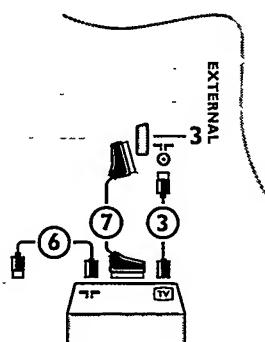
- Connect the aerial cables ①, ② and ③ as shown opposite. Better picture quality can be obtained if you also connect eurocable ⑤ to EXTERNAL 2 and a eurocable ④ to EXTERNAL 1 or 3.
- Look for the test signal of your peripheral in the same way as you do for a video recorder.

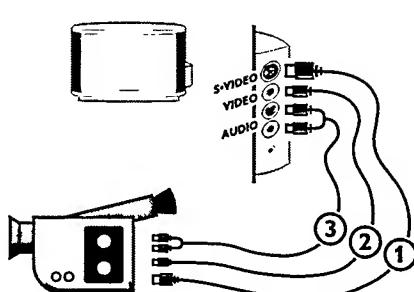
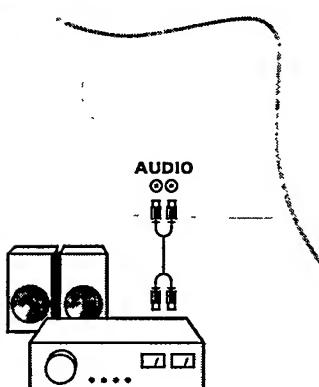
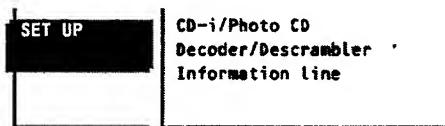
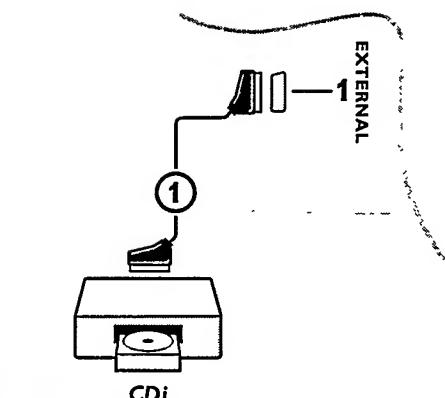


If you have more peripherals, they can also be connected to each other with an extra aerial cable ⑥ and an additional eurocable ⑦.

When a video recorder is connected to EXTERNAL 1 you can only record a programme from your TV.

Only when a video recorder is connected to EXTERNAL 2 it is possible to record a programme from your TV as well as from other connected equipment. See Record with your video recorder, p. 31.





TV and a CD-i/Photo CD

- Connect eurocable ① as shown opposite.
- Open the door at the top of the remote control.
- Press the two keys and at the same time.
- ▷ The INSTALLATION menu appears on the screen.
- Select Set up with the **▲** or **▼** keys and press the blue **OK** key.
- ▷ The SET UP menu appears.
- Select **CD-i/Photo CD** with the **▲** or **▼** keys.
- ▷ **CD-i/Photo CD** lights up.
- Press the **◀** or **▶** keys to select **Present**.
- ▷ This offers you optimum picture quality for your CD-i or Photo CD.
- Keep the red **MENU** key pressed to switch off all menus.

Audio equipment

You can listen to your TV sound via your audio equipment.

- Connect the audio cables to the audio input of your audio equipment and to **AUDIO L** and **R** at the back of your TV.

Camera and camcorder

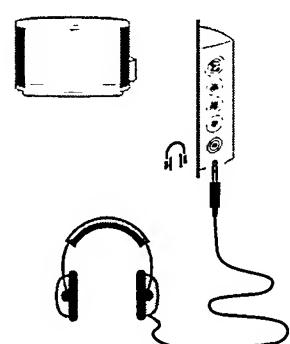
- Connect your camera or camcorder at the right side of your TV.
- Push the knob on the door to open.
- Connect the equipment to **VIDEO** ② and **AUDIO L** ③ for mono equipment.
- Also connect **AUDIO R** ③ for stereo equipment.
- S-VHS quality with a S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VIDEO** input ① and **AUDIO** inputs ③.

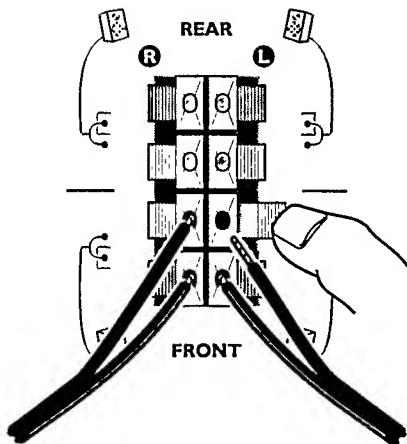
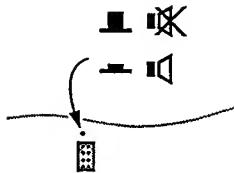
Headphone

- Insert the plug into the headphone socket at the right side of the TV.
- Push the knob on the door to open.
- Press on the remote control to switch off the internal loudspeakers of your TV.

The headphone socket has an impedance of between 8 and 4000 Ohm and has a 3.5 mm jack.

In the **SOUND** menu select **Headphone** to adjust the headphone volume and to select dubbed or original language (when the TV channel broadcasts in two languages) for your headphone sound. See p. 15.

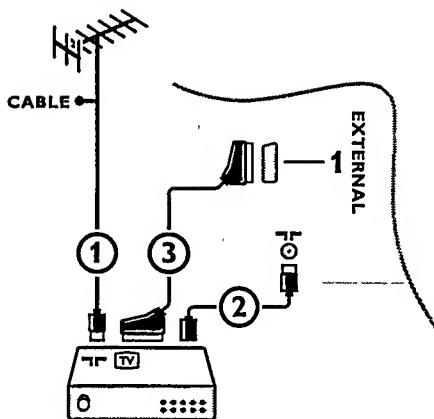




Extra loudspeakers

You can replace the left and right internal loudspeakers of your set by two extra loudspeakers, min. 8 Ohm.

- Connect the loudspeakers to the connector clips at the back of the TV.
- Push the connector clip down and insert the ends of the wires into the openings :
the negative wires to the black connector clips, the positive wires (the one with a black line) to the red connector clips.
Do not insert the wires too far.
- Connect the front left loudspeaker to **FRONT L** and the front right loudspeaker to **FRONT R**.
- Select a low volume adjustment.
- Put the loudspeaker switch on the back in the  position.
- ▷ The internal right and left loudspeakers of your TV are now switched off.



Decoder

Cable TV offers you a wide choice of programmes. Most of them are free, others are to be paid for by the viewer. This means that you will need to subscribe to the broadcasting organisation whose programmes you wish to receive. This organisation will supply you a corresponding decoder unit to allow the programmes to be unscrambled.

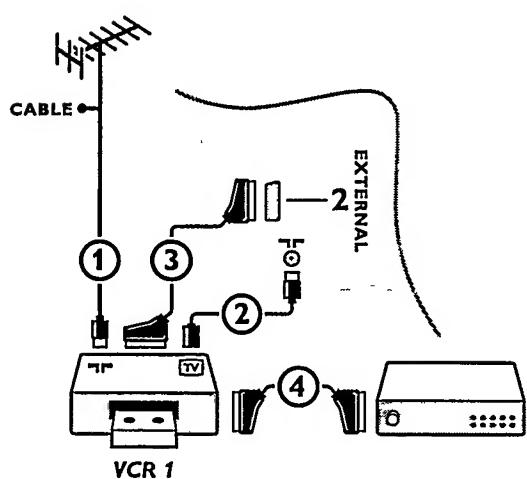
For further information, ask your dealer. See also the booklet supplied with your decoder.

Connect a decoder with an aerial socket to the TV

- Connect the aerial cable **①** as shown alongside.
When your decoder has a euroconnector you can obtain better picture quality if you connect a eurocable **③** to **EXTERNAL 1**.

Connect a decoder without an aerial socket to the TV

- Connect the decoder to your TV with a eurocable **③** only.

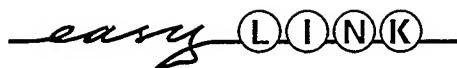


Connect the decoder to the video recorder

Some video recorders have a special euroconnector for decoder.

- Connect a eurocable **④** to the euroconnector of your decoder and to the special euroconnector of your video recorder.
See also the handbook of your video recorder.
- To connect your video recorder to the TV, see p. 27.
See Define Decoder/Descrambler prog. numbers as well, p. 11.

If you want to connect more equipment to your TV, consult your dealer.



Reproduce Picture and Sound of connected peripheral equipment

Most of the audio and video equipment from our range of products can be operated with the remote control of your TV.

If the TV is connected to a video recorder with the EasyLink function, in some cases the TV will be switched on, even when the TV was in standby. (E.g. playback tape,...) This is not possible when Child Lock On is selected.

a. Reproduce picture and sound from equipment connected with an **aerial cable only**

- o Switch your TV on.
- o Select the programme number under which you have stored the test signal with the digit keys .
- o Switch on your equipment.
(See the handbook for your equipment.)
- > The picture and/or sound is reproduced.

If you want to watch TV channels again.

- o With the digit keys, enter the programme number of the TV channel which you want to watch.

b. Reproduce picture and sound from equipment connected with a **eurocable**

- o Switch your TV on.
- o Switch on your equipment.
- > Either the picture and/or the sound is reproduced or descrambled.

If this is not the case :

- o Press repeatedly the key under the door of the remote control until the designation EXT1, EXT2 or EXT3 appears on the screen, according to where you connected your equipment at the back or the right side of your TV.
- > Either the picture and/or the sound is reproduced or descrambled.

If you want to watch TV channels again.

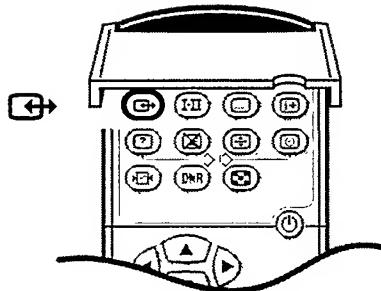
- o With the digit keys, enter the programme number of the TV channel which you want to watch.

c. Reproduce picture and sound from equipment connected to the **right side of the TV**

- o Switch your TV on.
- o Press repeatedly until the indication FRONT appears on the screen.
- o Switch on your equipment.
- > The picture is reproduced.

If you want to watch the TV picture again.

- o With the digit keys, enter the programme number of the TV channel which you want to watch.



Record with your video recorder without EasyLink

To record S-VHS quality, connect a S-VHS peripheral directly to the video recorder.

1. Record a TV programme

- using only an **aerial cable**
- Select the programme number on your video recorder.
- Set your video recorder to record.
(See the handbook for your video recorder.)

Switching programme numbers on your TV does not disturb recording !

- using a **europacable** connected to the euroconnector **EXTERNAL 2**

With a video recorder connected to EXTERNAL 2 it is possible to record a programme from your TV as well as from other connected equipment.

- Select the programme number on the TV.
- Select the right external on your video recorder.
- Set your video recorder to record. (See the handbook for your video recorder)
- ▷ You record what you are watching on the screen.

Do not switch programme numbers or do not switch off your TV when you are recording !

- using a **europacable** connected to the euroconnector **EXTERNAL 1**

With a video recorder connected to EXTERNAL 1 you can only record a TV channel.

- Select the programme number on the TV.
- Set your video recorder to record.
(See the handbook for your video recorder.)

Switching to a programme from a connected peripheral equipment does not disturb recording .

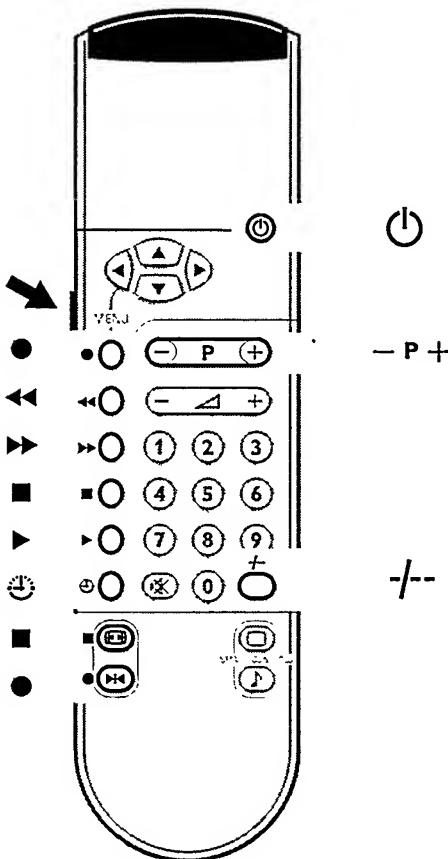
2. Record a programme on your video recorder connected to EXTERNAL 2 from Audio/Video equipment connected to EXTERNAL 1, EXTERNAL 3 or FRONT

- Switch on the equipment.
- Select the right external on your video recorder.
- Set your video recorder to record.
(See the handbook for your video recorder.)
- ▷ You record what you are watching on the screen.

Do not switch programme numbers or do not switch off your TV when you are recording !

To watch TV programmes again, press twice the programme number you want to select. Then the recording is stopped and your video recorder switches to standby.

Operate the video recorder with the TV remote control



Most of the audio and video equipment from our range of products can be operated with the remote control of the TV.

- Keep the **VCR** key on the left side of the remote control pressed and at the same time press :
 - the red ● key for record
 - the green ◀◀ key for rewind
 - the yellow ▶▶ key for wind
 - the blue ■ key for stop
 - the white ▶ key for play
 - the [■] [●] key for programming
 - the -/- P/P key for selecting one or two digit programme numbers from the video recorder
 - the - P + key to run quickly through the TV channels from your video recorder tuner
 - the digit keys to select TV channels from your video recorder tuner
 - the (power) standby key to switch off the video recorder temporarily.

easy **L I N K**

If your video recorder has the EasyLink function the ● ▶▶ and ■ [■] keys for record and stop can be operated in the TV mode.

easy **L I N K**

Record with a video recorder with EasyLink

If you have connected a S-VHS video recorder provided with the EasyLink function, you can record S-VHS-quality from a S-VHS peripheral connected to the right side of the TV. (E.g. from a S-VHS camcorder.)

It is possible to start a direct recording of the programme which is being displayed on the TV screen.

- Press at the same time the **VCR** key on the left side and the ● ▶▶ key of the remote control.
- ▷ The video recorder switches on when it was in standby and a message of what is being recorded appears at the bottom of the screen.
- ▷ The video recorder starts recording the programme that appears on the screen.
- Press the ■ [■] key to stop the recording.

When recording a programme from a peripheral connected to EXTERNAL 1, 3 or FRONT, you can not select another TV programme on the screen.

To watch TV programmes again, press twice the programme number you want to select. Then the recording is stopped and your video recorder switches to standby. If you switch to standby during recording a programme from a peripheral connected to EXTERNAL 1, 3 or FRONT, the blinking red lamp on the front of your TV indicates that you are still recording. The blinking stops after the recording is finished.

Tips

Care of the screen

Clean the TV with a slightly damp soft cloth. Do not use abrasive solvent as it can damage the TV screen.

Poor Picture

Have you selected the correct TV system ? Is your TV or house aerial located too close to loudspeakers, non-earthed audio equipment or neon lights, etc. ? Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the outside aerial. Is the picture or teletext unrecognisable ? Check if you have entered the correct frequency. See Installation, p. 7. Are brightness and contrast out of adjustment ? Press the **PP** key. Switch off your TV overnight using **①** on the front of the TV. Sometimes poor picture quality is possible when having activated a S-VHS camera or camcorder connected to the right side of your TV and another peripheral is connected to **EXT1** or **EXT2** at the same time. In this case switch off one of the other peripherals.

No picture

Is the aerial connected properly ? Are the plugs tightly connected in the aerial socket ? Is the aerial cable in good condition and does it have suitable plugs ? Are the connection facilities to a possible second TV in good condition ? If in doubt, consult your dealer.

No picture means that the aerial peripheral equipment is not transmitting a picture. Have you pressed the correct keys on the remote control ? Try once more. Did you press **≡** again after switching on teletext ? Has the child lock been switched off ? See Features, p. 18.

End of life directives

Your new TV contains materials which can be recycled and reused. At the end of life specialised companies can dismantle the discarded TV to concentrate the reusable materials and to minimise the amount of materials to be disposed of. Please ensure you dispose of your old TV according to local regulations.

How to dispose of dead batteries ?

The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many countries dead batteries may not be disposed of with your household waste. Please ensure you dispose of dead batteries according to local regulations.

Sound

Did you interrupt the sound with the **OK** key ?

Is the sound coming out of only one loudspeaker ? Is the balance perhaps set to one extreme ? See **SOUND** menu, p. 15.

Remote control

If your TV no longer responds to the remote control, the batteries may be dead. See Preparation, p. 4.

You can still use the Menu keys at the top of your TV.

Menu

Have you selected the wrong menu ? Press the same key again to exit from the menu.

Connections

Make sure your peripheral equipment is connected properly. See p. 27.

Have you switched on the peripheral equipment ?

No solution

Switch your TV off and then on again.

Never attempt to repair a defective TV yourself.

Check with your dealer or call a TV technician.



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EUROPE	
CHANNEL	FREQ (MHz)
E2	4825
E3	5525
E4	6225
E5	17525
E6	18225
E7	18925
E8	19625
E9	20325
E10	21025
E11	21725
E12	22425
S1	10525
S2	11225
S3	11925
S4	12625
S5	13325
S6	14025
S7	14725
S8	15425
S9	16125
S10	16825
S11	23125
S12	23825
S13	24525
S14	25225
S15	25925
S16	26625
S17	27325
S18	28025
S19	28725
S20	29425
H1	30325
H2	31125
H3	31925
H4	32725
H5	33525
H6	34325
H7	35125
H8	35925
H9	36725
H10	37525
H11	38325
H12	39125
H13	39925
H14	40725
H15	41525
H16	42325
H17	43125
H18	43925
H19	44725
H20	47125
H21	47925
H22	48725
H23	49525
H24	50325
H25	51125
H26	51925
H27	52725
H28	53525
H29	54325
H30	55125
H31	55925
H32	56725
H33	57525
H34	58325
H35	59125
H36	59925
H37	60725
H38	61525
H39	62325
H40	63125
H41	63925
H42	64725
H43	65525
H44	66325
H45	67125
H46	67925
H47	68725
H48	69525
H49	70325
H50	71125
H51	71925
H52	72725
H53	73525
H54	74325
H55	75125
H56	75925
H57	76725
H58	77525
H59	78325
H60	79125
H61	79925
H62	80725
H63	81525
H64	82325
H65	83125
H66	83925
H67	84725
H68	85525

EASTERN EUROPE	
CANAL	FREQ (MHz)
R1	4975
R2	5925
R3	7725
R4	8525
R5	9325
R6	17525
R7	18325
R8	19125
R9	19925
R10	20725
R11	21525
R12	22325
S1	10525
S2	11225
S3	11925
S4	12625
S5	13325
S6	14025
S7	14725
S8	15425
S9	16125
S10	16825
S11	23125
S12	23825
S13	24525
S14	25225
S15	25925
S16	26625
S17	27325
S18	28025
S19	28725
S20	29425
H1	30325
H2	31125
H3	31925
H4	32725
H5	33525
H6	34325
H7	35125
H8	35925
H9	36725
H10	37525
H11	38325
H12	39125
H13	39925
H14	40725
H15	41525
H16	42325
H17	43125
H18	43925
H19	44725
H20	47125
H21	47925
H22	48725
H23	49525
H24	50325
H25	51125
H26	51925
H27	52725
H28	53525
H29	54325
H30	55125
H31	55925
H32	56725
H33	57525
H34	58325
H35	59125
H36	59925
H37	60725
H38	61525
H39	62325
H40	63125
H41	63925
H42	64725
H43	65525
H44	66325
H45	67125
H46	67925
H47	68725
H48	69525
H49	70325
H50	71125
H51	71925
H52	72725
H53	73525
H54	74325
H55	75125
H56	75925
H57	76725
H58	77525
H59	78325
H60	79125
H61	79925
H62	80725
H63	81525
H64	82325
H65	83125
H66	83925
H67	84725
H68	85525

Tabell över TV-frekvenser.**TV-taajuustaulukko.****Κατάλογος συχνοτήτων πομπών.**

FRANCE	
CANAL	FREQ (MHz)
2	5575
3	6050
4	6375
5	1760
6	1840
7	1920
8	2000
9	2080
10	2160
B	11675
C	12875
D	14075
E	15975
F	16475
G	17675
H	18875
I	20075
J	21275
K	22475
L	23675
M	24875
N	26075
O	27275
P	28475
Q	29675
H1	30325
H2	31125
H3	31925
H4	32725
H5	33525
H6	34325
H7	35125
H8	35925
H9	36725
H10	37525
H11	38325
H12	39125
H13	39925
H14	40725
H15	41525
H16	42325
H17	43125
H18	43925
H19	44725
H20	47125
H21	47925
H22	48725
H23	49525
H24	50325
H25	51125
H26	51925
H27	52725
H28	53525
H29	54325
H30	55125
H31	55925
H32	56725
H33	57525
H34	58325
H35	59125
H36	59925
H37	60725
H38	61525
H39	62325
H40	63125
H41	63925
H42	64725
H43	65525
H44	66325
H45	67125
H46	67925
H47	68725
H48	69525
H49	70325
H50	71125
H51	71925
H52	72725
H53	73525
H54	74325
H55	75125
H56	75925
H57	76725
H58	77525
H59	78325
H60	79125
H61	79925
H62	80725
H63	81525
H64	82325
H65	83125
H66	83925
H67	84725
H68	85525

ITALY	
CANALE	FREQ (MHz)
A	5375
B	6225
C	8225
D	17525
E	18375
F	19225
G	20125
H	21025
H1	21725
S1	10525
S2	11225
S3	11925
S4	12625
S5	13325
S6	14025
S7	14725
S8	15425
S9	16125
S10	16825
S11	23125
S12	23825
S13	24525
S14	25225
S15	25925
S16	26625
S17	27325
S18	28025
S19	28725
S20	29425
H1	30325
H2	31125
H3	31925
H4	32725
H5	33525
H6	34325
H7	35125
H8	35925
H9	36725
H10	37525
H11	38325
H12	39125
H13	39925
H14	40725
H15	41525
H16	42325
H17	43125
H18	43925
H19	44725
H20	47125
H21	47925
H22	48725
H23	49525
H24	50325
H25	51125
H26	51925
H27	52725
H28	53525
H29	54325
H30	55125
H31	55925
H32	56725
H33	57525
H34	58325
H35	59125
H36	59925
H37	60725
H38	61525
H39	62325
H40	63125
H41	63925
H42	64725
H43	65525
H44	66325
H45	67125
H46	67925
H47	68725
H48	69525
H49	70325
H50	71125
H51	71925
H52	72725
H53	73525
H54	74325
H55	75125
H56	75925
H57	76725
H58	77525
H59	78325
H60	79125
H61	79925
H62	80725
H63	81525
H64	82325
H65	83125
H66	83925
H67	84725
H68	85525

GB

The frequencies used by a cable company may differ from the frequencies on the table. Consult your cable company or your dealer for detailed information.

D

In Kabelfernsehanlagen können Abweichungen von den in den Frequenztabellen aufgeführten Frequenzen vorkommen. Bitte wenden Sie sich an Ihren Fachhändler oder Ihre Kabelfernsehgesellschaft, die Ihnen die zutreffenden Frequenzen mitteilt.

F

Les fréquences utilisées par une société de télédistribution peuvent être différentes de celles sur la liste des fréquences. Consultez votre société de télédistribution ou votre revendeur pour des informations plus détaillées.

P

As frequências utilizadas por uma sociedade de teledistribuição podem ser diferentes das indicadas na lista de frequências. Consultar a sociedade de teledistribuição ou o vendedor para informações mais detalhadas.

N

Frekvensene som benyttes på et kabelnett kan avvike fra de som er oppført i tabellen. Kontakt ditt kabel-TV selskap eller din forhandler for nærmere opplysninger.

S

Frekvenserna som används i kabel-TV-nätet kan avvika från frekvenserna i tabellen. Kontakta ditt kabel-TV-bolag eller din radiohandlare för vidare information.

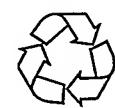
SF

Kaapeliyhtiöiden käyttämät taajuudet voivat poiketa taulukossa olevista taajuuksista. Tarkat tiedot saat kaapeliyhtiöstä tai myyjältä.

GR

Οι συχνότητες που χρησιμοποιούνται από μια εταιρεία τηλεμετόσημη είναι διαφορετικές από αυτές την εταιρεία περιεκτίσεως. Συμβουλεύετε την εταιρεία περιεκτίσεως πληροφορές.

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